(51) International Patent Classification⁷: **B25J 9/00,**
9/06, 9/08

(21) International Application Number:
PCT/AU2004/001683

(22) International Filing Date: 1 December 2004 (01.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003906638   1 December 2003 (01.12.2003)   AU
2004906445   10 November 2004 (10.11.2004)   AU

(71) Applicant *(for all designated States except US)*:
UNISEARCH LIMITED [AU/AU]; Rupert Myers
Building, Gate 14 Barker Street, University of New South
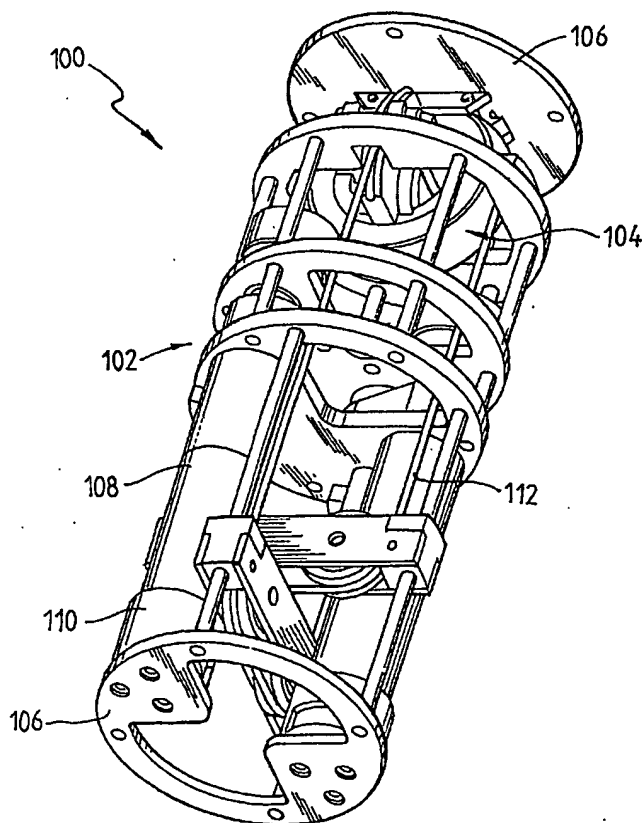Wales, Sydney, NSW 2052 (AU).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: VITTOR, Timothy
Ramford [AU/AU]; 15 Oklahoma Avenue, Toongabbie,

New South Wales 2146 (AU). WILLGOSS, Richard
Adrian [AU/AU]; 10 Terranora Place, Bangor, New South
Wales 2234 (AU).

(74) Agent: GRIFFITH HACK; GPO Box 4164, SYDNEY,
New South Wales 2001 (AU).

(81) Designated States *(unless otherwise indicated, for every
kind of national protection available)*: AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States *(unless otherwise indicated, for every
kind of regional protection available)*: ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

(54) Title: A METHOD FOR CONTROLLING A SYSTEM FORMED FROM INTERDEPENDENT UNITS

(57) Abstract: A system formed from a plurality
of interdependent units 200A to 200E are controlled
to achieve an outcome by establishing a desired
action for each unit responsive to the outcome but
independently of the desired action of the other units.
The control methodology has particular application
for robotic manipulators.

WO 2005/053912 A1

European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*